

DECLARATION OF PERFORMANCE OF SMOKE AND HEAT CONTROL SYSTEMS

1. *Unique identification code of the product-type:* **VENTILIGHT RIDGEPOLE OFP(sp)**
2. *Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11 paragraph 4: Information given on the tracking label :*
Order confirmation Number + Product Number + Date of production
3. *Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer :*

3.1 Product description : Natural smoke and heat exhaust ventilator with double casement , for roof installation which opens outwards, with an external motorization. The infill can be in cellular polycarbonate, in glass or insulated double skin aluminium (thermally or acoustically).

3.2 Installation and implementation conditions in accordance with the certified performances

- Roof installation 5° to 60° with the hinges on the side (in the direction of the slope).
- Dimensional range : (**A** and **B** are the overall dimensions of the product)
 Side **A** parallel to the hinges : $0,85m \leq A \leq 2,2m$ Side **B** perpendicular to the hinges : $0,7m \leq B \leq 1,4m$
 $*A_v = [\text{side } A - 0,181 \text{ m}] \times [(\text{side } B \times 2) - 0,181 \text{ m}]$ With $0,35 \text{ m}^2 \leq A_v^* \leq 2,86 \text{ m}^2$

3.3 Mode of operation : Fail safe opening and closing with air

Service pressure : 0 bars (Possibility to use the NSHEV as daily ventilation unit with a pressure of 6 bars)

	$700 \leq B \leq 900$	$901 \leq B \leq 1200$	$1201 \leq B \leq 1400$	$1401 \leq B \leq 1600$
1 Cylinder Ø50	c500	c800	c1000	c1200
	<i>10,5 NI</i>	<i>16,7 NI</i>	<i>20,8 NI</i>	<i>22,9 NI</i>

3.4 Possible options :

- Open / Close position switches
- Griddle, (distance 120 mm), diameter 5 mm without influence on the aerodynamic coefficient
- Thermal device release (according to the current standard)

4. *Name, registered trade name or trade mark , in conformity with article 11, paragraph 5:*

Company name : SOUCHIER – BOULLET SAS
 Parc Segro – 42 rue de Lamirault
 CS 20762
 77090 COLLEGIEN
 France

Production unit : SOUCHIER SAS
 11 rue du 47^{ème} R.A.
 70400 HERICOURT
 France

6. *7. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:*

The notified body **TÜV Rheinland N° 0336** performed the determination of the product type on the basis of type testing, type calculation of the product, the initial inspection of the manufacturing plant and the factory production control and the continuous surveillance, assessment and evaluation of the factory production control under system 1 and issued the certificate of constancy of performance N°

CE Certificate N°0336 – CPR – 10430.

9. *Declared performances:*

	Essential characteristics	Performance
Harmonised technical specification: EN 12101-2:2003	Nominal activation conditions / sensitivity, as: Initiation device Opening mechanism Inputs and outputs	present present present
	Response delay (response time), as: Reliability Opening under (snow, wind) load Low ambient temperature Fire Performance	≤ 60 s
	Operational reliability, as: Reliability	Re 1000 (+10 000), Type B
	Effectiveness of smoke/hot gas extraction, as: Aerodynamic free area	$A_v = A_v^* \times C_v^{**}$
	Performance parameters under fire conditions, as: Resistance to heat Mechanical stability Reaction to fire	B ₃₀₀ 30 $\Delta A_{th,heat} < 10 \%$ Insulated panel or glass Polycarbonate A1 B-s1;d0
	Performance under environmental conditions, as: Opening under load (see tables) Low ambient temperature Stability under wind load Resistance to wind-induced vibration (where included) Resistance to heat	SL*** T(00) WL 1500 $\omega_0: > 10\text{Hz}, \delta: > 0,1$ B ₃₀₀ 30
	Durability, as: Response delay (response time) Operational reliability Performance parameters under fire conditions	≤ 60 s Re 1000 (+10 000) ≤ 60 s; $\Delta A_{th,heat} < 10 \%$

DECLARATION OF PERFORMANCE OF SMOKE AND HEAT CONTROL SYSTEMS

Free Aerodynamic surface calculation :

$$A_a = A_v * x C_v^{**} \text{ or NPd}$$

$$*A_v = (\text{side A} - 0,181 \text{ m}) \times (\text{side B} - 0,181 \text{ m})$$

C _v without windshield		Installation 30°/30°								
		Side B (mm)								
		≥ 700	≥ 800	≥ 900	≥ 1000	≥ 1100	≥ 1200	≥ 1300	≥ 1400	≥ 1500
Side A (mm)	≥ 850	0,37	0,37	0,36	0,36	0,36	0,35	0,34	0,33	0,33
	≥ 900	0,37	0,37	0,36	0,36	0,36	0,35	0,34	0,33	0,33
	≥ 1000	0,38	0,38	0,37	0,37	0,36	0,35	0,34	0,33	0,33
	≥ 1100	0,38	0,38	0,37	0,37	0,36	0,35	0,34	0,33	0,32
	≥ 1200	0,38	0,38	0,37	0,37	0,36	0,35	0,34	0,33	0,32
	≥ 1300	0,39	0,39	0,38	0,38	0,37	0,35	0,34	0,32	0,32
	≥ 1400	0,39	0,39	0,38	0,38	0,37	0,35	0,34	0,31	0,31
	≥ 1500	0,39	0,39	0,38	0,38	0,37	0,35	0,34	0,31	0,31
	≥ 1600	0,40	0,40	0,39	0,39	0,38	0,36	0,34	0,31	0,31
	≥ 1700	0,40	0,40	0,39	0,39	0,38	0,36	0,34	0,31	0,30
	≥ 1800	0,40	0,40	0,39	0,39	0,38	0,36	0,34	0,31	0,30
	≥ 1900	0,41	0,41	0,40	0,40	0,39	0,37	0,34	0,31	0,30
≥ 2000	0,41	0,41	0,40	0,40	0,39	0,37	0,34	0,31	0,30	
≥ 2100	0,41	0,41	0,40	0,40	0,39	0,37	0,34	0,31	0,30	

C _v without windshield		Installation 45°/45°								
		Side B (mm)								
		≥ 700	≥ 800	≥ 900	≥ 1000	≥ 1100	≥ 1200	≥ 1300	≥ 1400	≥ 1500
Side A (mm)	≥ 850	0,38	0,38	0,37	0,37	0,36	0,35	0,34	0,33	0,33
	≥ 900	0,38	0,38	0,37	0,37	0,36	0,35	0,34	0,33	0,33
	≥ 1000	0,38	0,38	0,37	0,37	0,36	0,35	0,34	0,33	0,33
	≥ 1100	0,39	0,39	0,38	0,38	0,36	0,35	0,34	0,33	0,33
	≥ 1200	0,39	0,39	0,38	0,38	0,36	0,35	0,34	0,33	0,33
	≥ 1300	0,40	0,40	0,39	0,39	0,37	0,36	0,34	0,33	0,33
	≥ 1400	0,40	0,40	0,39	0,39	0,37	0,36	0,34	0,33	0,32
	≥ 1500	0,40	0,40	0,39	0,39	0,37	0,36	0,34	0,33	0,32
	≥ 1600	0,41	0,41	0,40	0,40	0,38	0,37	0,35	0,33	0,32
	≥ 1700	0,41	0,41	0,40	0,40	0,38	0,37	0,35	0,33	0,32
	≥ 1800	0,41	0,41	0,40	0,40	0,38	0,37	0,35	0,33	0,31
	≥ 1900	0,42	0,42	0,41	0,41	0,39	0,37	0,35	0,33	0,31
≥ 2000	0,42	0,42	0,41	0,41	0,39	0,37	0,35	0,33	0,31	
≥ 2100	0,42	0,42	0,41	0,41	0,39	0,37	0,35	0,33	0,31	

C _v without wind shields		Installation 60°/60°								
		Side B (mm)								
		≥ 700	≥ 800	≥ 900	≥ 1000	≥ 1100	≥ 1200	≥ 1300	≥ 1400	≥ 1500
Side A (mm)	≥ 850	0,30	0,30	0,29	0,29	0,28	0,27	0,26	0,25	0,25
	≥ 900	0,30	0,30	0,29	0,29	0,28	0,27	0,26	0,25	0,25
	≥ 1000	0,30	0,30	0,29	0,29	0,28	0,27	0,26	0,25	0,25
	≥ 1100	0,30	0,30	0,29	0,29	0,28	0,27	0,26	0,25	0,25
	≥ 1200	0,30	0,30	0,29	0,29	0,28	0,27	0,26	0,25	0,25
	≥ 1300	0,31	0,31	0,30	0,30	0,28	0,27	0,26	0,25	0,24
	≥ 1400	0,31	0,31	0,30	0,30	0,28	0,27	0,26	0,25	0,24
	≥ 1500	0,31	0,31	0,30	0,30	0,28	0,27	0,26	0,25	0,24
	≥ 1600	0,31	0,31	0,30	0,30	0,29	0,27	0,25	0,24	0,24
	≥ 1700	0,31	0,31	0,30	0,30	0,29	0,27	0,25	0,24	0,23
	≥ 1800	0,32	0,31	0,31	0,31	0,29	0,27	0,25	0,23	0,23
	≥ 1900	0,32	0,31	0,31	0,31	0,29	0,27	0,25	0,23	0,23
≥ 2000	0,32	0,31	0,31	0,31	0,29	0,27	0,25	0,23	0,23	
≥ 2100	0,32	0,31	0,31	0,31	0,29	0,27	0,25	0,23	0,23	

***Determination of the snowload classification :

Side A parallel to the hinges : 0,85m ≤ A ≤ 2,2m

Side B parallel to the hinges : 0,7m ≤ B ≤ 1,4m

2 CYLINDERS PER LEAF				
2100-A ≤ 2200	SL500 700 ≤ B ≤ 1019	SL250 1020 ≤ B ≤ 1215	SL150 1216 ≤ B ≤ 1400	
2000-A < 2100	SL500 700 ≤ B ≤ 1042	SL250 1043 ≤ B ≤ 1242	SL150 1243 ≤ B ≤ 1400	
1900-A < 2000	SL500 700 ≤ B ≤ 1066	SL250 1067 ≤ B ≤ 1271	SL150 1272 ≤ B ≤ 1400	
1800-A < 1900	SL500 700 ≤ B ≤ 1092	SL250 1093 ≤ B ≤ 1302	SL150 1303 ≤ B ≤ 1400	
1700-A < 1800	SL500 700 ≤ B ≤ 1120	SL250 1121 ≤ B ≤ 1335	SL150 1336 ≤ B ≤ 1400	
1600-A < 1700	SL500 700 ≤ B ≤ 1151	SL250 1152 ≤ B ≤ 1372	SL150 1373 ≤ B ≤ 1400	
1500-A < 1600	SL500 700 ≤ B ≤ 1183	SL250 1184 ≤ B ≤ 1400		
1400-A < 1500	SL500 700 ≤ B ≤ 1230	SL250 1231 ≤ B ≤ 1400		
1300-A < 1400	SL500 700 ≤ B ≤ 1272	SL250 1273 ≤ B ≤ 1400		
1200-A < 1300	SL500 700 ≤ B ≤ 1318	SL250 1291 ≤ B ≤ 1400		
1 CYLINDER PER LEAF				
850 ≤ A ≤ 1200	SL500 700 ≤ B ≤ 983	SL250 984 ≤ B ≤ 1173	SL150 1174 ≤ B ≤ 1290	SLO 1291 ≤ B ≤ 1400

10. The performance of the product identified in points 1 et 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by: **David Maillart – R&D Manager**

The 17/04/2023
In Collégien

